

PTO/SB/21 (08-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

4

Application Number 10/691,452

Filing Date 10/22/2003

First Named Inventor Michael Kardauskas

Art Unit 1753

Examiner Name Alan Diamond

Attorney Docket Number SR.US.1

**RECEIVED
CENTRAL FAX CENTER****JUN 13 2006****ENCLOSURES (Check all that apply)**

- ☐ Fee Transmittal Form
- ☐ Fee Attached
- ☐ Amendment/Reply
- ☐ After Final
- ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/Incomplete Application
- ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53

- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☒ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation
- ☐ Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
- ☐ Landscape Table on CD

- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) (please identify below):
- Declaration by Inventor in Support of Petition to Make Special.

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name Mesmer & Deleault, PLLC

Signature 

Printed name Phillip E. Decker

Date 06/13/2006

Reg. No. 39,163

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: 571-273-8300

Signature 

Typed or printed name Phillip E. Decker

Date 06/13/2006

This collection of information is required by 37 CFR 1.6. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 36 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

JUN 13 2006**Attorney's Docket No. SR.US.1****PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**In re Application of: Michael J. Kardauskas and
Bernhard P. Piwczyk

Serial No.: 10/691,452

Filed: 10/22/2003

For: **DIFFRACTIVE STRUCTURES FOR THE
REDIRECTION AND CONCENTRATION OF
OPTICAL RADIATION**

] Examiner: Alan D. Diamond

] Group Art Unit: 1753

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450**PETITION TO MAKE SPECIAL UNDER THE ENERGY PROGRAM
MPEP 708.02 VI; 37 CFR § 1.102(c)(2)(ii)**

Applicants hereby petition to make this application special as being for an application that materially contributes to the discovery or development of energy resources.

Accompanying this petition is a declaration by one of the named inventors explaining how the invention materially contributes discovery or development of energy resources.

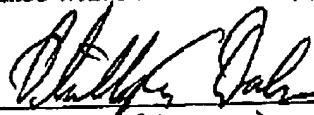
No fee is required with this petition, in accordance with 37 CFR 1.102(c).

Date:

6/13/06

Reg. No.: 39,163

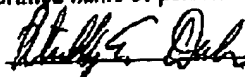
Tel. No.: (603) 766-1910


(Signature of Attorney)
Phillip E. Decker
Attorney for Applicants
Mesmer & Deleault, PLLC
1 New Hampshire Ave., Suite 125
Portsmouth, NH 03801**CERTIFICATE OF TRANSMISSION**

I hereby certify that this correspondence is being facsimile transmitted to the U.S. Patent and Trademark Office (Fax No. 571-273-8300) on June 13, 2006.

Typed or printed name of person signing this certificate: Phillip E. Decker.

Signature:



RECEIVED
CENTRAL FAX CENTER

JUN 13 2006

Attorney's Docket No. SR.US.1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Michael J. Kardauskas and
Bernhard P. Piwczyk

Serial No.: 10/691,452

Filed: 10/22/2003

For: DIFFRACTIVE STRUCTURES FOR THE
REDIRECTION AND CONCENTRATION OF
OPTICAL RADIATION

] Examiner: Alan D. Diamond

] Group Art Unit: 1753

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION BY INVENTOR IN SUPPORT OF PETITION TO MAKE SPECIAL
UNDER THE ENERGY PROGRAM (37 CFR § 1.102(c)(2)(ii))

I, Michael J. Kardauskas, having a business mailing address of 8 River Street, Billerica, Massachusetts 01821, am an Applicant in the above-captioned patent application, and declare as follows:

1. That this invention materially contributes to the discovery or development of energy resources by greatly increasing the amount of power that can be produced by a solar panel. The invention harnesses the optical radiation striking the surface of a solar panel that would otherwise be reflected away because the angle of incidence is too great. The invention uses a diffractive layer disposed on the solar panel to redirect and concentrate optical radiation to the photovoltaic cells, thereby increasing power output without increasing the area of photovoltaic cells.
2. That actual tests of the invention have demonstrated a power output increase of about 12%.
3. That the theoretical maximum power output increase is at least 100%.
4. That the increasing scarcity of oil as an energy source and a global shortage of photovoltaic cells make this invention materially important in the development of energy resources.
5. That I believe all the claims in this application as on file are allowable.

6. I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: June 13, 2006

/Michael J. Kardauskas /
(Signature)